ABSTRACT

In a voice communication system such as the Bluetooth Short Range Radio System, wherein transmission of voice information through an air interface is represented by a succession of frames of signal data samples respectively contained in a succession of pitch synchronous frames, and wherein one or more of the data frames may be lost due to interference, a method is disclosed for improving quality of voice information at the system receiver. The method includes the steps of computing a threshold value associated with a particular pitch synchronous frame, and selectively comparing an average magnitude of the particular pitch synchronous frame with the threshold value to detect loss of a data frame contained in the particular pitch synchronous frame. When loss is detected, the loss is concealed at the receiver by replacing the particular pitch synchronous frame with a replica of the pitch synchronous frame which immediately precedes the particular frame in the succession of pitch synchronous frames.